PRENTICE COMPUTER CENTRE

UNIVERSITY OF QUEENSLAND, ST. LUCIA, QUEENSLAND, AUSTRALIA. 4067.



NEWSLETTER

N-264 22-June-81

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Principal Service Centres

	Exten	sions
Operations Manager Consulting - Hawken Building Batch Station (Contract Programming & Feasibility Studies Equipment & Data Line Fault Reporting Accounts System Status Automatic Answering General Enquiries Program Librarian Training & Courses		3471 3025 3944 3938 2188 3101 3018 3943 3021
Griffith University: Consulting Computer Services	275)	7561 7560

1.0 AVAILABILITY OF THE VAX

As notified in the previous newsletter (N-263 of 25-5-81) the VAX 11/780 will be available from 6th July on a non-charged basis for a month to allow familiarisation. Details are provided in the Newsletter of 25-5-81.

John Noad extension 3017

2.0 CHANGE IN HOURS OF ATTENDED OPERATIONS

At the end of semester the hours of attended operations will change. As from 6 July 1981 the systems will be running unattended from 2am (change from 4am) Tuesday morning till Friday morning, and 1am Saturday morning (change from 2am). This is due to the introduction of the VAX 11/780 which will lighten the workload on the KL system, and therefore reduce the need for operator attended running until 4am.

Di Ball extension 3471

3.0 SANDERS PRINTER

Work has been completed on software for a Sanders Media 12/7 printer. This printer is installed in the graphics room (the same room which holds the Diablo printer) and is now available for use on the same basis as the Diablo. This means that bookings for using the Sanders must be made on extension 2188 with the Accounts Supervisor prior to use.

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The Sanders printer produces output of higher quality than is available with the Diablo, and has several features which make it very attractive. Character styles can be changed automatically, even within a single line; you can use either proportional or non-proportional character styles; scientific symbols are available; and you can use single sheet letter-head stationery.

The printer is connected to the network via a Visual 200 terminal. This allows you to perform final editing, running utility programs, etc. on the video screen and you need only commit your output to printing when it is complete. In line with this the TYPE utility has been changed. TYPE has two new switches - /SANDER and /DIABLO for typing files on the Sanders and Diablo printers respectively. These switches cause the printers to be initialised correctly and set up the appropriate line characteristics.

Typeset output can be sent to the Sanders as well. To facilitate this the RUNOFF, TXTMEN, and ITPS programs have been updated to recognize the device SANDER as legitimate. To typeset to the Sanders the value SANDER should be used instead of DIABLO or APS - otherwise the method is the same as before.

It is intended that the scientific character set (and possibly other special character sets which become available) will be accessible via the typesetting system. However work on this has not yet been completed. These characters can be accessed by performing some minor editing before printing your output. A sequence of special characters must be inserted in your file to allow this. Full information may be obtained, should you desire to do this, by contacting the Computer Centre.

Future text-processing courses will cover the use of the Sanders printer. Any other enquiries should be directed to Dianne Ball on extension 3471.

Andrew Broughton extension 3022

4.0 COMPIL

COMPIL is a program which handles the interpretation of monitor commands to compile, load, and debug programs, as well as some utility functions like RENAME, DELETE, etc.

A new version of COMPIL (version 22D - edit 323) has been placed on NEW:. This version is purely a maintenance update of the previous one and incorporates no new features.

It is intended that this version will be placed on the SYS: area on 31st of July. If there are any problems (i.e. unexpected results) from using the new version please contact me on extension 3022.

Andrew Broughton extension 3022

5.0 LIBRARY NEWS: NEW VERSION OF NAG - MARK 8

There is an updated version of NAG on NEW:. This will be moved to STA: in mid-July. For further information on new or withdrawn rountines, contact Leonie Roberts on extention 3943.

1. New Routines

CO5ADF	DO1ALF	DO2RAF	F01LZF	GO1AGF	G08CAF
COSAGF	DO1AMF	D02SAF	F01MCF	GO1AHF	G08DAF
CO5AJF	DO1ANF	D02TGF	F01QAF	GO1DAF	HO1AFF
CO5AVF	DO1APF	D03ECF	F01QBF	GO4AEF	HO1BAF
COSAXF	DO1AQF	DO3PAF	F02GJF	GO4AFF	S14ABF
CO6EAF	DO1BCF	D03PBF	F02SDF	GO4AGF	S17AGF
CO6EBF	DO1BDF	D03PGF	F02SZF	GO5DPF	S17AHF
CO6ECF	DO1FBF	D03UBF	F02WAF	G05EGF	S17AJF
CO6FAF	DO1FCF	E01AEF	F02WBF	G05EWF	S17AKF
CO6FBF	D02GAF	E01BAF	F02WCF	GO8AAF	S21BAF
CO6FCF	D02GBF	E02AGF	F02WDF	G08ABF	S21BBF
CO6GBF	DO2HAF	E02AHF	FO4JAF	G08ACF	S21BCF
CO6GCF	D02HBF	E02AJF	F04JDF	G08ADF	S21BDF
DO1AHF	D02JAF	E02AKF	F04JGF	GO8AEF	X02AGF
DO1AJF	D02JBF	E02GCF	F04LDF	GO8AFF	X02DAF
DO1AKF	DO2KEF	F01LBF	F04MCF	G08BAF	

2. Withdrawn Routines

The following 24 routines have been withdrawn from the NAG FORTRAN Library at Mark 8.

Routine withdrawn

Recommended replacement

CO5PAF DO1AAF DO1ABF	E04GBF, E04GCF, E04GDF or E04GEF D01AJF D01AJF
DO 1A DF	DO1BAF or DO1BBF
DO1AEF DO1AFF	D01BAF or D01BBF D01BAF or D01BBF
DO2A AF	DO2YAF DO2BAF or DO2PAF
D02ABF D02AHF	DOZCAF OF DOZCAF
D02AJF	DO2EAF, DO2EBF or DO2QBF
E04CFF	E04CGF or E04JBF
EO4DDF EO4EAF	EO4DEF, EO4DFF, EO4KBF or EO4KDF EO4EBF or EO4LBF
EO4FAF	EO4FCF or EO4FDF
E04GAF	E04GBF, E04GCF, E04GDF or E04GEF
FO1BFF FO1CJF	FO1BQF FO1CRF
F02AHF	F02BCF
F02ALF	FO2BDF
FO2ATF FO2AUF	F02BKF F02BLF
FO3AJF	
FO3AKF	F01BSF
FO4APF	FO4AXF

3. Routines Scheduled for Withdrawal at Mark 9

The following 21 routines are scheduled for withdrawal from the NAG FORTRAN Library at Mark 9, because improved routines have now been included in the Library. Users are advised to stop using any routine is scheduled for withdrawal and to use the recommended replacement routine instead.

Routine	scheduled	for	withdrawal	Recommended	replacement
---------	-----------	-----	------------	-------------	-------------

COSAAF	CO5ADF
CO5ABF	COSADF
COSACF	CO5ADF
C.O 6 A A F	COGECF
CO6ABF	COGEAF
DO1ACF	DO1BDF
DO1AGF	DO1AJF
DO2ADF	DO2HAF or DO2GAF
D02AFF	DO2TGF
D02AGF	DO2HBF or DO2SAF

EO1ADF E01BAF F01BHF FO2WAF or FO2WCF FO1BWF F01BJF F02WDF F01BKF F01BMF F01LBF F01BWF + F02BFF F02BMF F03ALF F01LBF FO4AUF F04JGF F04LDF FO4AVF GO4AEF GO1ACF HO1AEF HO1BAF or HO1ADF

Leonie Roberts extension 3943

6.0 AVAILABILITY OF CLIENT ROOM

Some users will be aware that on Tuesday and Wednesday nights following the Queen's Birthday weekend, University Security cleared the client's room in the Hawken Building. Whilst carrying out this duty they apparently claimed to be acting on my instructions. I should like to make it quite clear that University Security were not acting on advice from the Computer Centre.

The Centre apologizes to users who were inconvenienced by the actions of the Security Officers. Representations have been made to prevent a re-occurrence of this situation.

Tony Bird extension 3944

7.0 SPSS CORNER

The Case of the "Missing" Values

Query:

In my last SPSS run, I omitted to include values for some variables in a number of cases in the data-file, yet the output did not contain any reference to any "missing values". What happened to

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them?

Answer:

SPSS does not interpret the term "missing values" in a "common-sense" manner. It does not treat the absence of a value as "missing"; indeed, for <u>numeric</u> variables, any such non-existent value is interpreted as the "real" value zero.

The values which SPSS treats as "missing" are only those values which the <u>user instructs</u> SPSS to treat as such. Each variable may have up to 3 distinct values declared as "missing" (i.e. to be disregarded during processing).

As a rider to the above query, we should consider the use of the ASSIGN BLANKS card (for <u>numeric</u> variables <u>only</u>), since this affords a means of distinguishing between "non-existence" (i.e. blank) values and the (possibly legitimate) value zero.

The form of this card is

ASSIGN BLANKS n , where n is a number

The effects of this card is to place the nominated value "n" into every completely blank value for every numeric variable for every case.

This value may then be declared "missing" via the normal MISSING VALUES card for all numeric variables. Thus, we have the full circle - the non-existent value ("missing" in common-sense terms) is given a real value (via the ASSIGN BLANKS card), which is subsequently declared "missing" (via a MISSING VALUES card).

One final point:- suppose a variable V takes legitimate values 0-99, but for some cases, no value is available for V; suppose also that this variable has been declard to have format F2.0. Can the ASSIGN BLANKS card still be used, since all possible two-digit numbers can occur as legitimate values? The answer is YES - we can use a value such as 999 (three-digits) without upsetting SPSS. We do not have to alter the data-file in any way, nor do we have to re-declare the format to be F3.0.

Tony Bird extension 3944

8.0 INFORMATION CONCERNING COURSES

Second Semester Courses

The following courses will be offered during the period August-December (July has been reserved for VAX courses, as outlined in Newsletter N-263):

August

(a) Introduction to PDP-10 : August 10 - August 11

2 full days 9-12 am + 2-5 pm each day

(b) RUNOFF : August 17 - August 21

5 half days 9.00 am - 12.30 pm each day

(c) VG : August 17 - August 21

5 half days 2-5 pm each day

September

(d) SPSS : September 7 - September 11

5 half days 9.00 am - 12.30 pm each day

(e) SOS Editor : September 7 - September 8

2 half days 2-5 pm each day

Note: This course is suitable for users of \underline{both} PDP-10 \underline{and} VAX systems.

(f) VAX Course *

: During week Sept 14 - Sept 18

(See note below)

October

(g) VAX Course * : During week October 5 - October 9

(h) Elementary BASIC : October 19 - October 21

Programming 3 full days 9-12 am + 2-5 pm each day

(i) VAX Course * : During week October 26 - October 30

November

(j) Introduction to PDP-10 : November 2 - November 3

2 full days 9-12 am + 2-5 pm each day

(k) Introduction to PDP-10 : November 5 - November 6

2 full days 9-12 am + 2-5 pm each day

(1) RUNOFF : November 9 - November 11

3 full days 9-12 am + 2-5 pm each day

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(m) SPSS : November 16 - November 20

5 half days 9 - 12.30 each day

(n) VAX Course * : During week November 16-November 20

(afternoons only)

(o) Elementary FORTRAN : November 30 - December 4

Programming 5 full days 9-12 am + 2-5 pm each day

*Note: In the above list, provision has been made for the conducting of additional courses on VAX 11/780 system. The exact nature of these courses has yet to be determined, and will be based on user's needs. Details will appear in later Newsletters.

General Notes:

- 1. All courses are conducted in the Client Room, Hawken Building.
- 2. Staff and post-graduate students are admitted free to courses. Other users are required to pay a fee of \$10.00 per half-day.
- 3. Enrolments for all courses may be made by contacting

Barry Maher extension 3021

9.0 DATA COMMUNICATIONS SEMINAR

The Australian Computer Society and the International Federation of Information Processing are conducting a 3-day Symposium on Data Communications Technology and Practice (COMTAP 81) in Sydney 16th - 18th November 1981.

There are fourteen speakers of international reputation representing 10 countries. The topics to be covered are:

SATELLITE COMMUNICATIONS
USING PACKET SWITCH NETWORKS
LOCAL AND HYBRID NETWORKS
MESSAGE SYSTEMS - ELECTRONIC MAIL
TECHNIQUES FOR MANAGING COMPUTER NETWORKS
ECONOMIC FACTORS IN CHOOSING NETWORK ALTERNATIVES
SECURITY ISSUES IN PUBLIC NETWORKS
SIGNIFICANCE OF NETWORKS TO MANAGEMENT AND SOCIETY

I bring the Symposium to users attention as it represents a rather unique opportunity in Australia to obtain current information on this rapidly developing area. Further information and registration forms can be obtained from the Centre's enquiry counter at the Hawken Building.

Alan Coulter extension 2189

10.0 SYSTEMS PERFORMANCE - MAY

Exchanging printers on the Commerce Node caused some disruption to our otherwise flawless service this month. The Data Products 600 lpm printer from Commerce now resides on the VAX. Commerce Node now has an LA120 which has been coping with the print load adequately.

Graham Rees extension 3288

SYSTEM PERFORNANCE REPORT

For node KA10 there were 29 working days in the period 1/May/81 to 31/May/81

		KA10	>
		ннн:ми	%
1.	Attended system running time	456:14	
2.	Plus unattended system running time	258:12	
3.	Equals total system running time	714:26	100.0
	less time used for:		
4.	Scheduled maintenance	18:21	2.6
5.	Dedicated operations tasks	5:38	0.8
6.	Dedicated systems development	0:00	0.0
7.	Equals time scheduled for use	690:27	96.6
	less lost time due to:		
8.	Unscheduled maintenance	1:52	0.3
9.	Hardware faults	3:12	0.4
10.	Software faults	0:13	0.0
11.	Unresolved	1:39	0.2
12.	Environmental conditions	0:00	0.0
13.	Equals time available to users	683:31	95.7
14.	Effective user uptime (13./7.)		99.0
1.5	Washing a Commanda		4.0
15.	Number of crashes		12
16.	Mean availability between crashes		56:58
17.	Mean time to recover crashes (minutes)		25
18.	Total number of Jobs		13940

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SYSTEM PERFORMANCE REPORT

For node KL10 there were 27 working days in the period 1/May/81 to 31/May/81

		KL10	>	< DN87A	>	< DN87B	>
		ннн:мм	50	ннн:мм	of A	ннн:мм	%
1.	Attended system running time	458:55		458:55		458:55	
2.	Plus unattended system running time	135:43		135:43		135:43	
3.	Equals total system running time	594:38	100.0	594:38	100.0	594:38	100.0
	less time used for:						
4.	Scheduled maintenance	19:49	3.3	19:49	3.3	19:49	3.3
5.	Dedicated operations tasks	10:10	1.7	10:10	1.7	10:10	1.7
6.	Dedicated systems development	2:48	0.5	2:48	0.5	2:48	0.5
7.	Equals time scheduled for use	561:51	94.5	561:51	94.5	561:51	94.5
	less lost time due to:						
8.	Unscheduled maintenance	6:55	1.2	0:00	0.0	0:00	0.0
9.	Hardware faults	3:16	0.5	0:00	0.0	0:00	0.0
10.	Software faults	0:08	0.0	0:00	0.0	0:00	0.0
11.	Unresolved	0:35	0.1	0:04	0.0	0:04	0.0
12.	Environmental conditions	0:00	0.0	0:00	0.0	0:00	0.0
13.	Equals time available to users	550:57	92.7	561:47	94.5	561:47	94.5
14.	Effective user uptime (13./7.)		98.1		100.0		100.0
15.	Number of crashes		14		3		4
16.	Mean availability between crashes		39:21		187:16		140:27
17.	Mean time to recover crashes (minutes)		17		1		N-26 22JU 1
18.	Total number of Jobs		16728				N-264 22JUNE81

SYSTEM PERFORMANCE REPORT

For node GRIFFITH there were 26 working days in the period 1/May/81 to 31/May/81

		<	GRIFFITH	>	>
			ннн:мм	7	;
1.	Attended system running time		166:57		
2.	Plus unattended system running time		383:22		
3.	Equals total system running time		550:19	100.0)
	less time used for:				
4.	Scheduled maintenance		0:00	0.0)
5.	Dedicated operations tasks		0:00	0.0)
6.	Dedicated systems development		0:00	0.0)
7.	Equals time scheduled for use		550:19	100.0)
	less lost time due to:				
8.	Unscheduled maintenance		0:00	0.0)
9.	Hardware faults		6:08	1.	1
10.	Software faults		0:00	0.0	כ
11.	Unresolved		0:49	0.	1
12.	Environmental conditions		0:00	0.0)
13.	Equals time available to users		543:22	98.	7
14.	Effective user uptime (13./7.)			98.	7
15.	Number of crashes				9
16.	Mean availability between crashes			60:2	2
17.	Mean time to recover crashes (minutes)			4 (6

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SYSTEM PERFORMANCE REPORT

For node COMMERCE there were 20 working days in the period 1/May/81 to 31/May/81

		<	COMMERCI	Ε >	>
			HHH: MM	9	6
1.	Attended system running time		163:14		
2.	Plus unattended system running time		0:00		
3.	Equals total system running time		163:14	100.0	ס
	less time used for:				
4.	Scheduled maintenance		0:00	0.0)
5.	Dedicated operations tasks		0:00	0.0)
6.	Dedicated systems development		0:00	0.0)
7.	Equals time scheduled for use		163:14	100.0)
	less lost time due to:				
8.	Unscheduled maintenance		0:00	0.0)
9.	Hardware faults		24:27	15.0	0
10.	Software faults		0:00	0.0	0
11.	Unresolved		0:27	0.	3
12.	Environmental conditions		0:00	0.0)
13.	Equals time available to users		138:20	84.	7
14.	Effective user uptime (13./7.)			84.	7
15.	Number of crashes			1	tı
16.	Mean availability between crashes			9:5	3
17.	Mean time to recover crashes (minutes)			101	7